

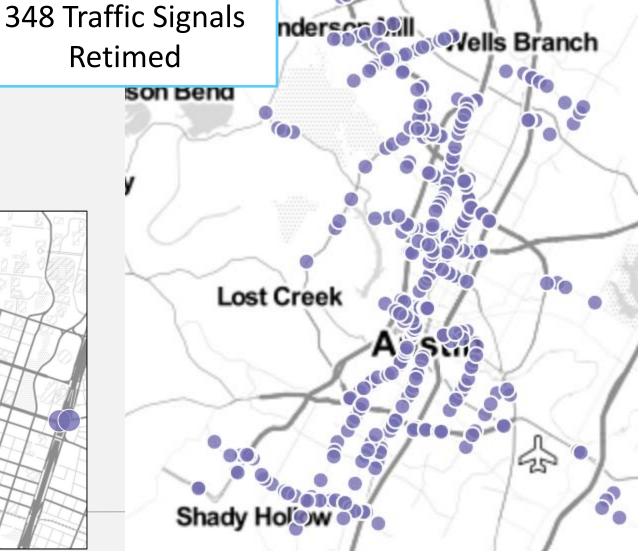


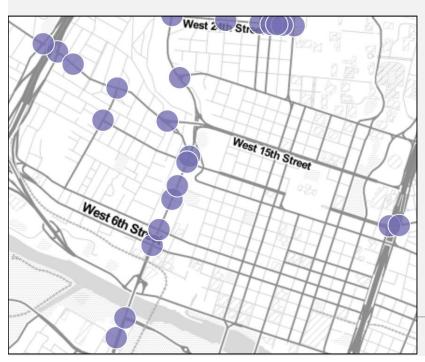
FY 17 Annual Retiming Program

Travel Time Reduced 1

7.7%

FY2017 Goal: 5.0%

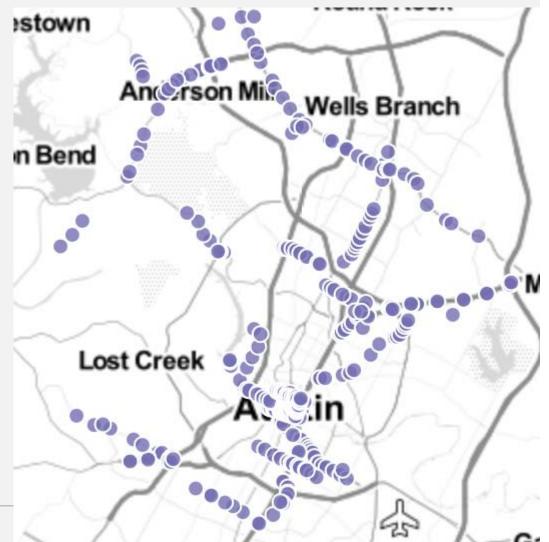


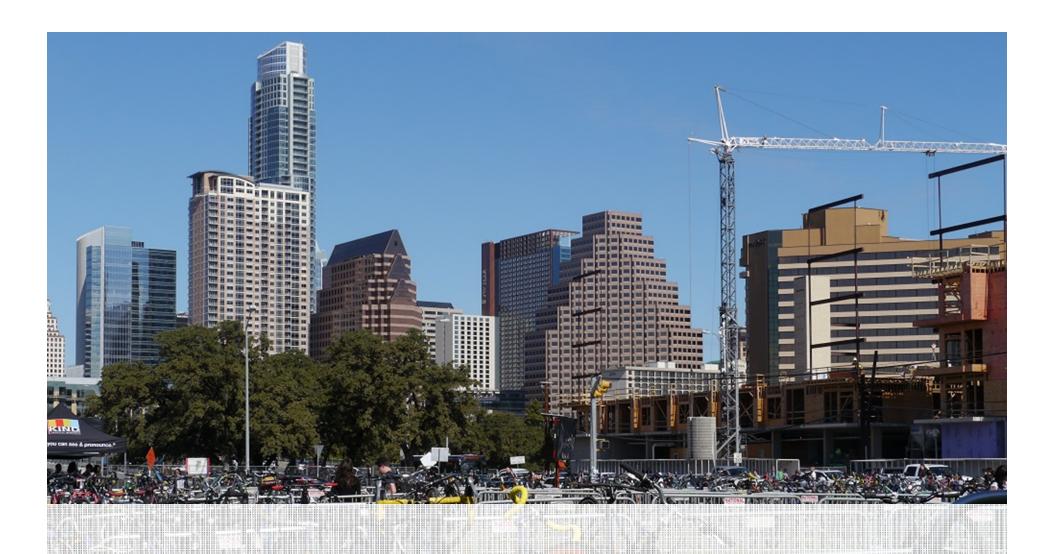


FY 18 Annual Retiming Program

1/3 Traffic Signals
Planned for Retiming







Cesar Chavez Street Retiming



The Process

Study the Problem

- Field observations
- Data analysis
- Citizen & property owner feedback

Solutions

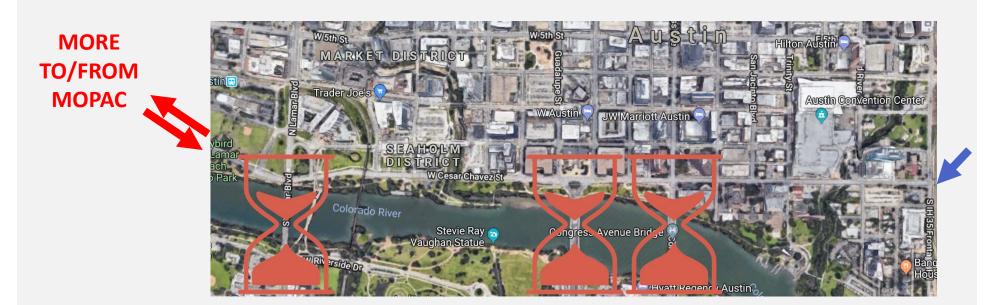
- Signal retiming
- Striping changes
- Intersection redesign



Context of the Corridor

- Mopac Express Lanes Traffic
- IH 35 Bottleneck

- Limited river crossings
- Main street throughput vs. side street access





Capacity of a Roadway

- Capacity
 - The amount of vehicles that can possibly travel on a roadway
- For each lane:
 - 1 vehicle every 2.5 s \rightarrow 1440 veh/hr
 - 40% of the cycle for one direction means each lane can accommodate 575 veh/hr
 - We have 2 lanes E/W on Cesar Chavez
- 1150 veh/hr in one direction
 - IF they have somewhere to go
 - IF everyone is driving attentively
 - IF there's no lane blocking
- Cesar Chavez regularly experiences demand in the neighborhood of 1500 veh/hr



The Strategy

AM peak:

- Raise the cycle length to provide fewer long stops
- Prioritize progression and high volume turns that access major employment buildings

• PM peak:

- Clear a few of the critical blocks each cycle
- Prioritize daily commuters leaving the area



Timeline & Analysis Weeks

November

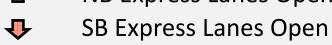
December

2017

September

2018

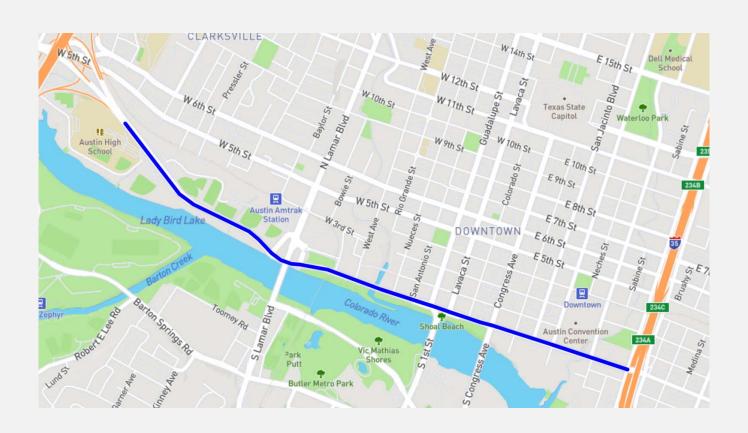




October

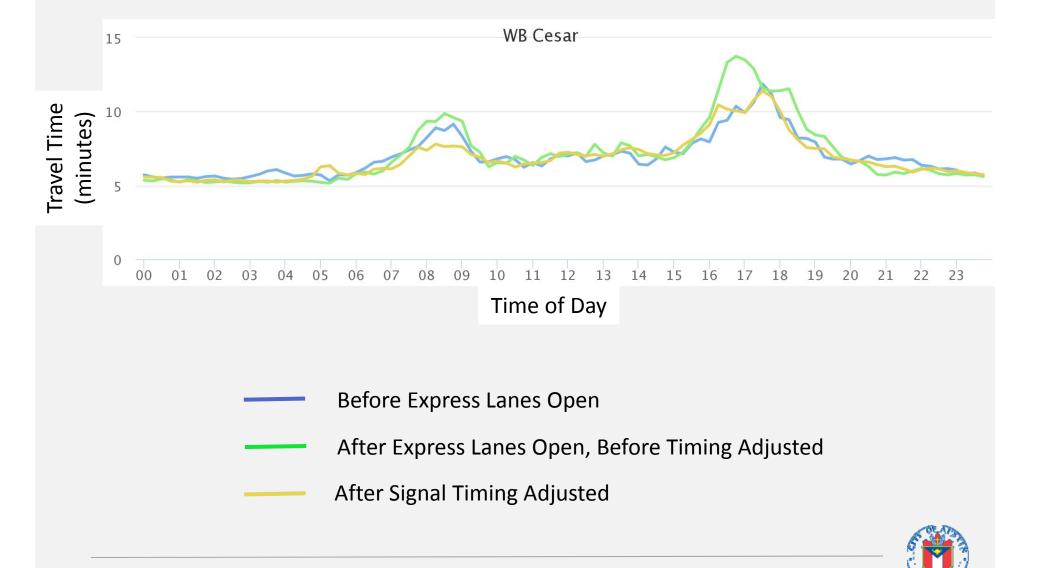


Study Area (Probe Data)

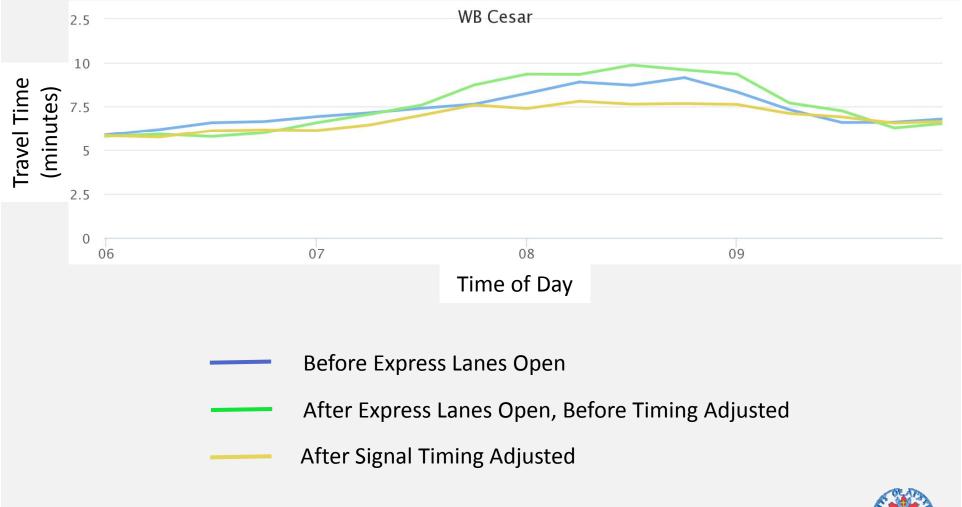




Cesar Chavez Travel Times WB

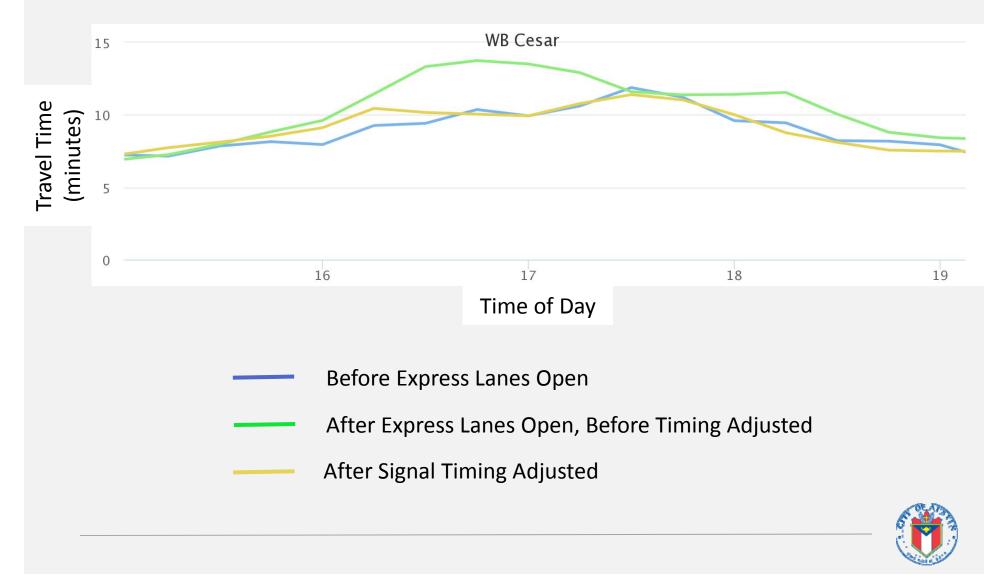


Cesar Chavez Travel Times: WB in the AM

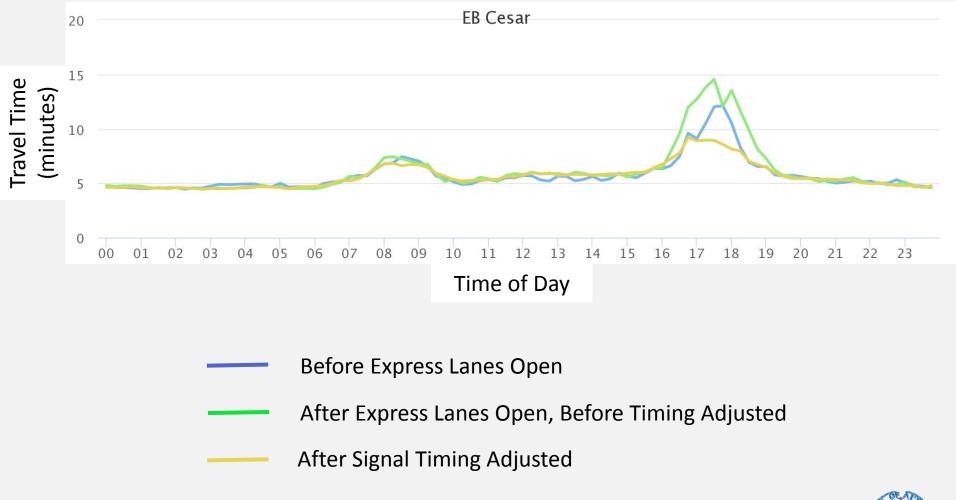




Cesar Chavez Travel Times: WB in the PM

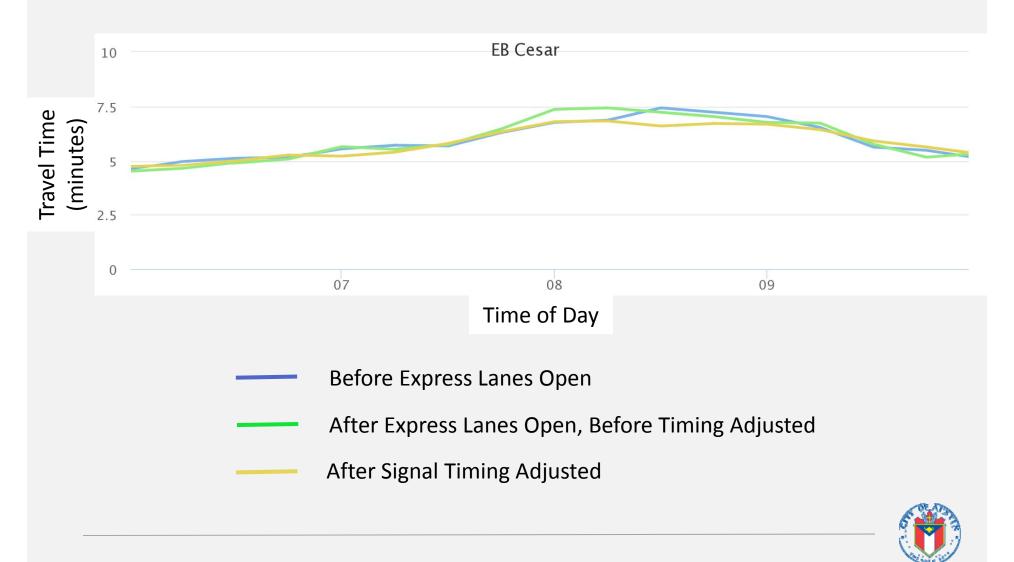


Cesar Chavez Travel Times EB

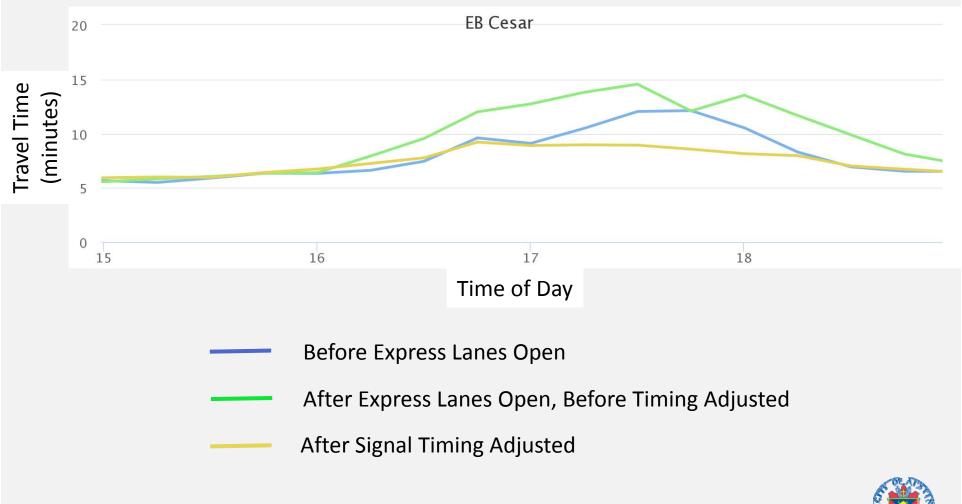




Cesar Chavez Travel Times: EB in the AM



Cesar Chavez Travel Times: EB in the PM





Roadway Modifications (under evaluation)

- Cesar Chavez & BR Reynolds (west of Lamar)
 - Near-term: Restripe to provide better storage for EBL
- Cesar Chavez & South First Bridge
 - Long-term: Add capacity and separate phase for NBL movement
- Cesar Chavez & Congress
 - Near-term: Restripe WBL to have full block turn lane instead of partial, reevaluate need for dynamic lane assignment in PM peak
- Cesar Chavez side streets
 - Evaluate critical locations that are now able to accommodate NB or SB left turn signal heads



Alternate Solutions

- Flexible work schedules
 - 7am-4pm and 9am-6pm
- Telecommuting
 - Try working just a few hours from home a week
- Transit/Bike/Walk

These options not only get you out of traffic, they help the rest of the commuters who don't have the same flexibility



